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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/002,183	12/05/2001	Hyun Duk Cho	P-0309 3476		
34610 75	590 12/09/2004		EXAMINER		
FLESHNER & KIM, LLP			PHILIPPE, GIMS S		
P.O. BOX 2212	200				
CHANTILLY,	VA 20153	ART UNIT	PAPER NUMBER		
,			2613		

DATE MAILED: 12/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



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		Applicati	on No.	Applicant(s)				
			83	CHO ET AL.				
Oi	ffice Action Summary	Examine	r	Art Unit				
		Gims S P		2613				
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THE MAILII - Extensions of after SIX (6) N - If the period for If NO period for Failure to replany records.	NED STATUTORY PERIOD FOR NG DATE OF THIS COMMUNICA time may be available under the provisions of 3 MONTHS from the mailing date of this communicator reply specified above is less than thirty (30) do for reply is specified above, the maximum statuto by within the set or extended period for reply will, eived by the Office later than three months after the term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no everation. ays, a reply within the starty period will apply and we by statute, cause the appropriate the appropriate in the appropriate i	ent, however, may a reply be ti utory minimum of thirty (30) da ill expire SIX (6) MONTHS from dication to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this commeted to the comme	nunication.			
Status								
1)☐ Resp	onsive to communication(s) filed o	on						
2a)∏ This a								
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of	Claims							
4)⊠ Claim 4a) Of 5)⊡ Claim 6)⊠ Claim	(s) <u>1-20</u> is/are pending in the apple f the above claim(s) is/are values (s) is/are allowed. (s) <u>1-7,11,18 and 19</u> is/are rejected (s) <u>9,10,12-17 and 20</u> is/are objected	withdrawn from co	nsideration.					
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Application Pa	pers							
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Priority under	35 U.S.C. § 119							
a)⊠ All 1.⊠ 2.⊟ 3.⊟	wledgment is made of a claim for b) Some * c) None of: Certified copies of the priority doc Certified copies of the priority doc Copies of the certified copies of t application from the International	cuments have bee cuments have bee he priority docum Bureau (PCT Rul	en received. en received in Applicat ents have been receiv e 17.2(a)).	ion No ed in this National Sta	age			
* See the	e attached detailed Office action fo	or a list of the cert	fied copies not receive	ed.				
Attachment(s)								
	erences Cited (PTO-892)		4) Interview Summary	(PTO-413)				
3) 🛛 Information 🛭	ftsperson's Patent Drawing Review (PTO- Disclosure Statement(s) (PTO-1449 or PTC Mail Date <u>12062004</u> .		Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate Patent Application (PTO-15	(2)			

DETAILED ACTION

This is a first action in response to application no.10/002,183 filed on December 5th 2001 in which claims 1-20 are presented for examination.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-7, 11-12, 17-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Kim et al. (US Patent no. 6498810).

The applied reference has a common Assignee with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Regarding claim 1, Kim discloses the same method for coding a motion vector comprising the steps of computing two-dimensional prediction error information by using a motion vector to be coded and the n (n ≥11) number of neighboring motion vectors (See Kim col. 3, lines 31-33), selecting prediction error information having the minimum bitrate from the computed prediction error information (See col. 3, lines 37-41), obtaining mode information indicative of a neighboring motion vector which has occurred the prediction error information of the minimum bitrate (See col. 3, lines 45-47), and coding the obtained prediction error information of the minimum bitrate and the mode information (See Kim col. 3, lines 49-51).

Regarding claims 2-7, 11, and 17-19, most of the limitations of these claims have been noted in the above rejection of claim 1. In addition, Kim further checks whether factors of obtained prediction error information of the minimum bitrate are 0 and coding the prediction error information of the minimum bitrate (See Kim col. 6, lines 19-25 and

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detailed in col. 4, lines 31-51 and see fig. 6). Note that the 0 minimum bit rate is understood as being the equation of line 64 of col. 4).

As per claim 12. Kim further provides the prediction error information of minimum bitrate as a two-dimensional one (See col. 4, lines 7-13).

3. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Sugiyama (US Patent no. 6271885).

Regarding claim 1, Sugiyama discloses the same method for coding a motion vector comprising the steps of computing two-dimensional prediction error information by using a motion vector to be coded and the n (n ≥11) number of neighboring motion vectors (See Sugiyama col. 3, lines 4-8, lines 47-49), selecting prediction error information having the minimum bitrate from the computed prediction error information (See col. 5. lines 7-27), obtaining mode information indicative of a neighboring motion vector which has occurred the prediction error information of the minimum bitrate (See col. 3, lines 27-39), and coding the obtained prediction error information of the minimum bitrate and the mode information (See col. 5, lines 7-18).

4. Claims 8-10, 13-16, and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Karczewicz et al. (US Patent no. 6735249) teaches apparatus and associated method, for forming a compressed motion vector field utilizing predictive motion coding.

Chinag et al. (US Patent no. 6690833) teaches apparatus and method for macroblock based rate control in a coding system.

Ebrahim (US Patent no. 5594504) teaches predictive video coding using a motion vector updating routine.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gims S Philippe whose telephone number is (703) 305-1107. The examiner can normally be reached on M-F (9:30-7:00) Second Monday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chris S Kelley can be reached on (703) 305-4780. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gims S Philippe Primary Examiner Art Unit 2613

GSP

December 7, 2004